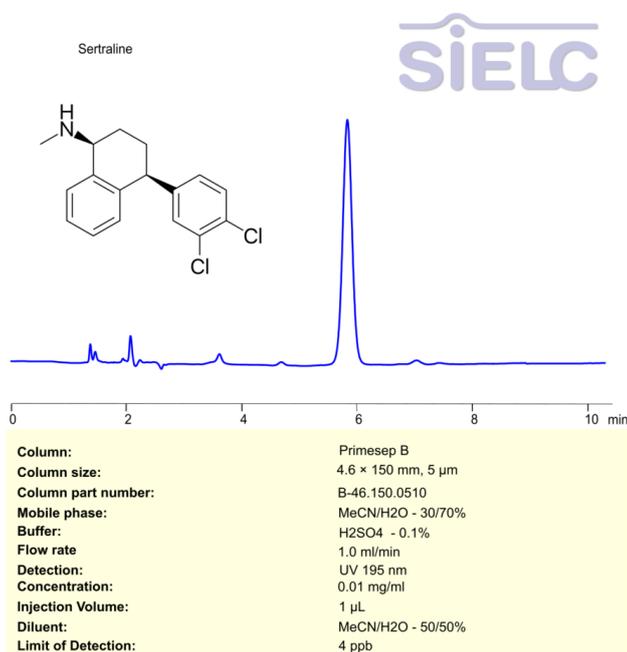


HPLC Method for Analysis of Sertraline in Tablet Dosage on Primesep B Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Sertraline is an antidepressant belonging to the class of selective serotonin reuptake inhibitors (SSRIs). It is commonly prescribed to treat conditions like depression, anxiety disorders, obsessive-compulsive disorder (OCD), panic attacks, and post-traumatic stress disorder (PTSD).

Common Uses Major depressive disorder (MDD) Generalized anxiety disorder (GAD) Panic disorder Obsessive-compulsive disorder (OCD) Post-traumatic stress disorder (PTSD) Social anxiety disorder

Sertraline can be retained, separated and analyzed using a Primesep B mixed-mode stationary phase column. The analysis employs a gradient method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 195 nm.

You can find detailed UV spectra of Sertraline and information about its various lambda maxima by visiting the following link .

Method Parameters

Column	Primesep B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 195 nm
Limit of Detection	4 ppb

Quelle: <https://sielc.com/hplc-method-sertraline>